Atty Docket No: 1014-11 Response t May 29, 2003 Office Action

Application S/N:10/017,963 Date of Response: October 29, 2003

AMENDMENTS TO THE SPECIFICATION

Please replace the fourth paragraph on page 7 beginning with "1) A chiral element may be produced by twisting...." and continuing onto page 8, with the following amended paragraph:

"1) A chiral element may be produced by twisting one or more heated optical fibers as disclosed in the co-pending commonly assigned U.S. patent application FOR METHOD AND "APPARATUS entitled: applications MANUFACTURING PERIODIC GRATING OPTICAL FIBERS" S/N: 09/925.590; "CHIRAL FIBER GRATING" S/N: 10/097,024, and "APPARATUS AND METHOD FOR FABRICATING CHIRAL FIBER GRATINGS" S/N: 10/099,623; and in the co-pending commonly assigned U.S. provisional patent applications entitled "Helical Fiber Bragg Grating", and "Apparatus and Method for Fabricating Helical Fiber Bragg Gratings", which are all hereby incorporated by reference in their entirety;"

Please replace the third paragraph on page 8 beginning with "3) A chiral element may be produced by imposing modulation of", with the following amended paragraph:

"3) A chiral element may be produced by imposing modulation of the effective refractive index in an optical fiber by writing a single or a double helix pattern on the external surface of the fiber. For example, a periodic structure, such as a Atty Dock t N : 1014-11 Response to May 29, 2003 Office Acti n

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groove may be formed on its surface. This may be accomplished via laser ablation or by the addition of dielectric material in a helix on the outside of the fiber. The helical dielectric about the fiber can also be deposited and subsequently developed. These techniques are disclosed in the above-incorporated provisional U.S. patent applications "HELICAL FIBER BRAGG GRATING", and "APPARATUS AND METHOD FOR FABRICATING HELICAL FIBER BRAGG GRATINGS";"

Please replace the fourth paragraph on page 8 beginning with "4) Another way of producing a chiral element involves imposing", with the following amended paragraph:

"4) Another way of producing a chiral element involves imposing a helical or a double helical modulation of the refractive index at the core of an optical fiber as disclosed in the co-pending commonly assigned U.S. patent application entitled: "APPARATUS AND METHOD OF MANUFACTURING CHIRAL FIBER BRAGG GRATINGS" S/N 10/020,678; and"